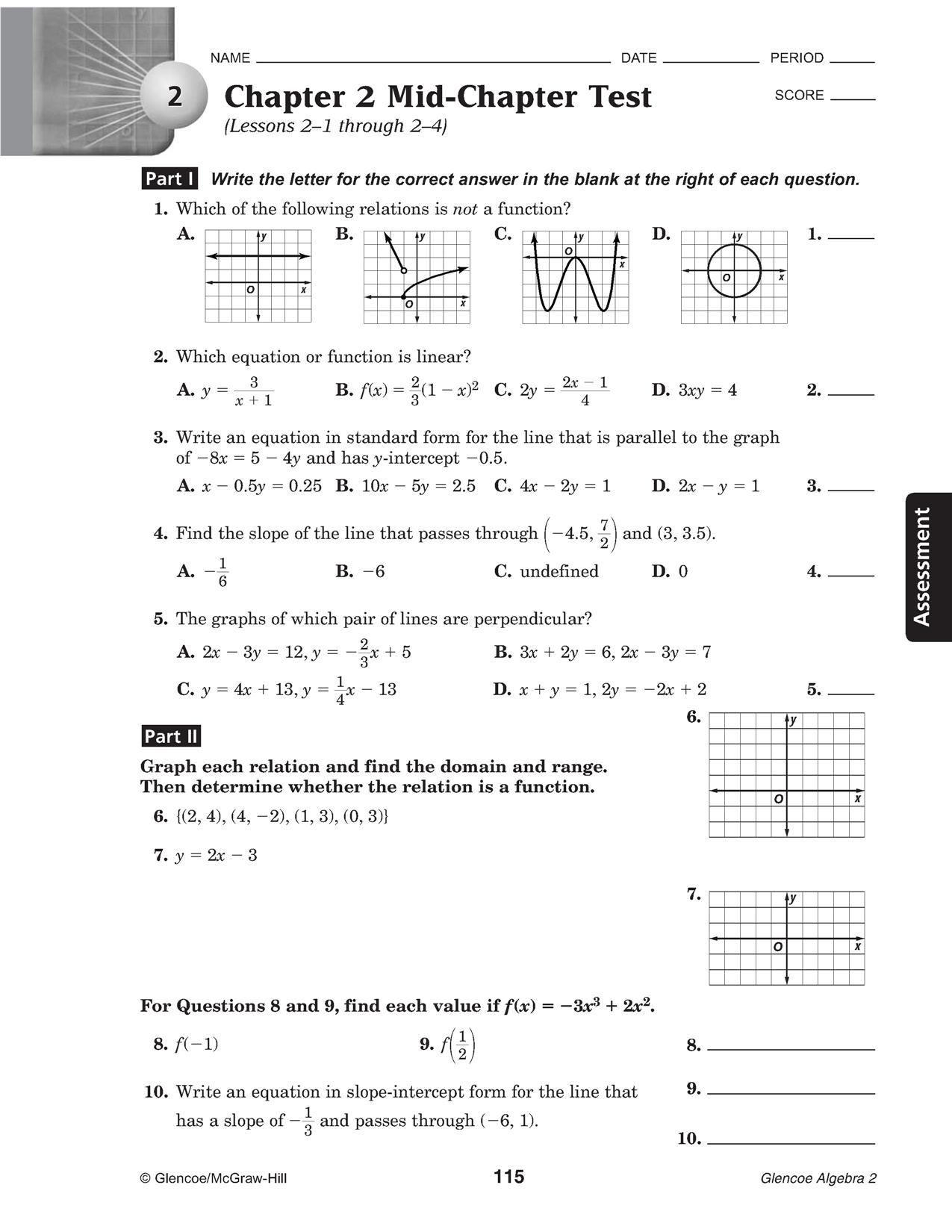
**Chapter 2 Test** Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Algebra 2 Linear Relations and Functions

*Write the letter for the correct answer in the blank at the right of each question.*

1. Which of the following relations is *not* a function? 1.\_\_\_\_\_\_\_\_\_\_



2.Which equation or function is linear?

A. y = B. f (x) = C. 2y = D. 3xy = 4 2.\_\_\_\_\_\_\_\_\_

3. Write an equation in y-intercept form for the line that is parallel to the graph of 3.\_\_\_\_\_\_\_\_\_\_\_\_\_\_

y = 5x + 15 and crosses the y-axis at 4.

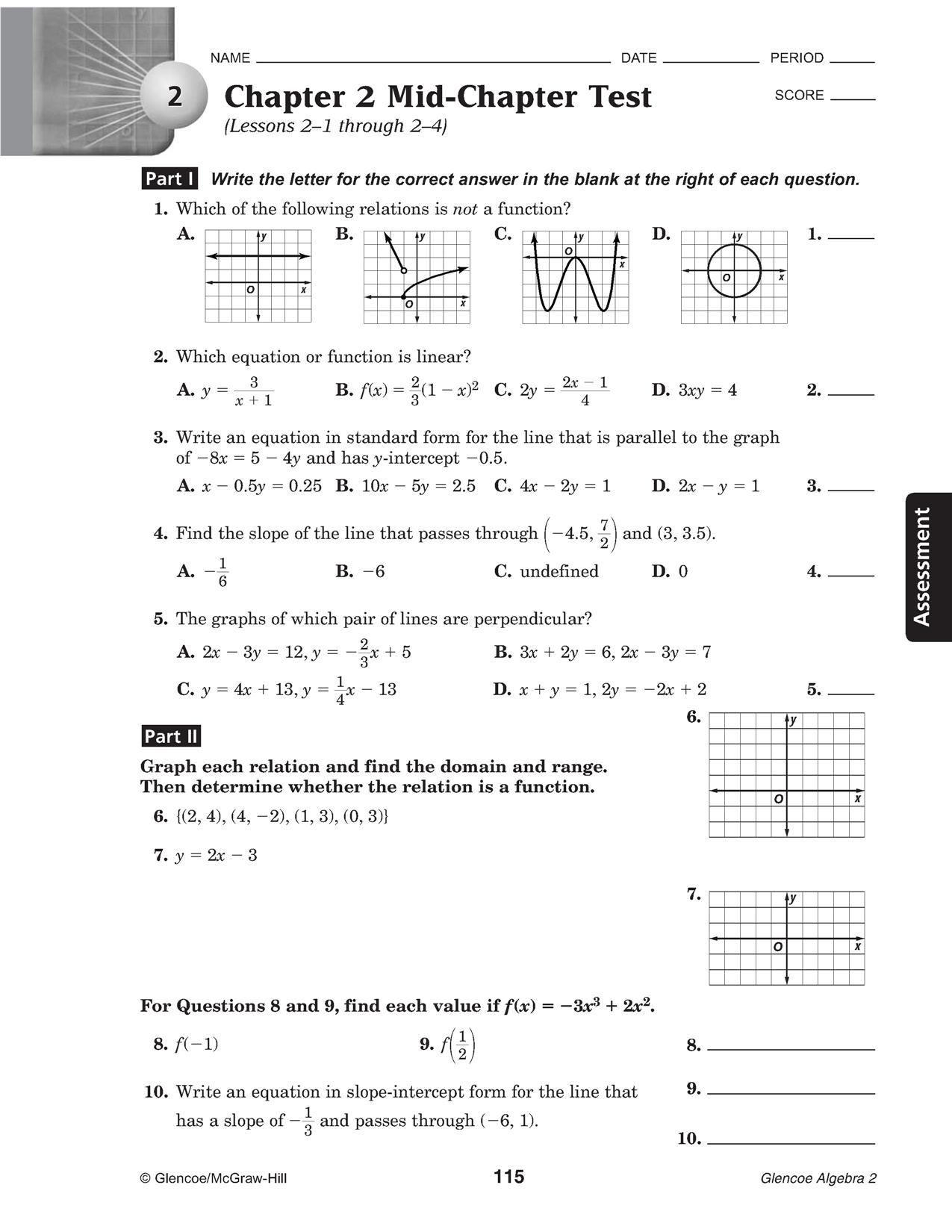
4. Find the slope of the line that passes through (5, 7) and ( 6, 2). 4.\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. Describe the relationship between the slopes of two perpendicular lines.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Graph the following. Tell whether each graph is a function.

6. { ( 2, 4) , ( 4, -2 ) ( 1, 3) ( 0 , 3)}

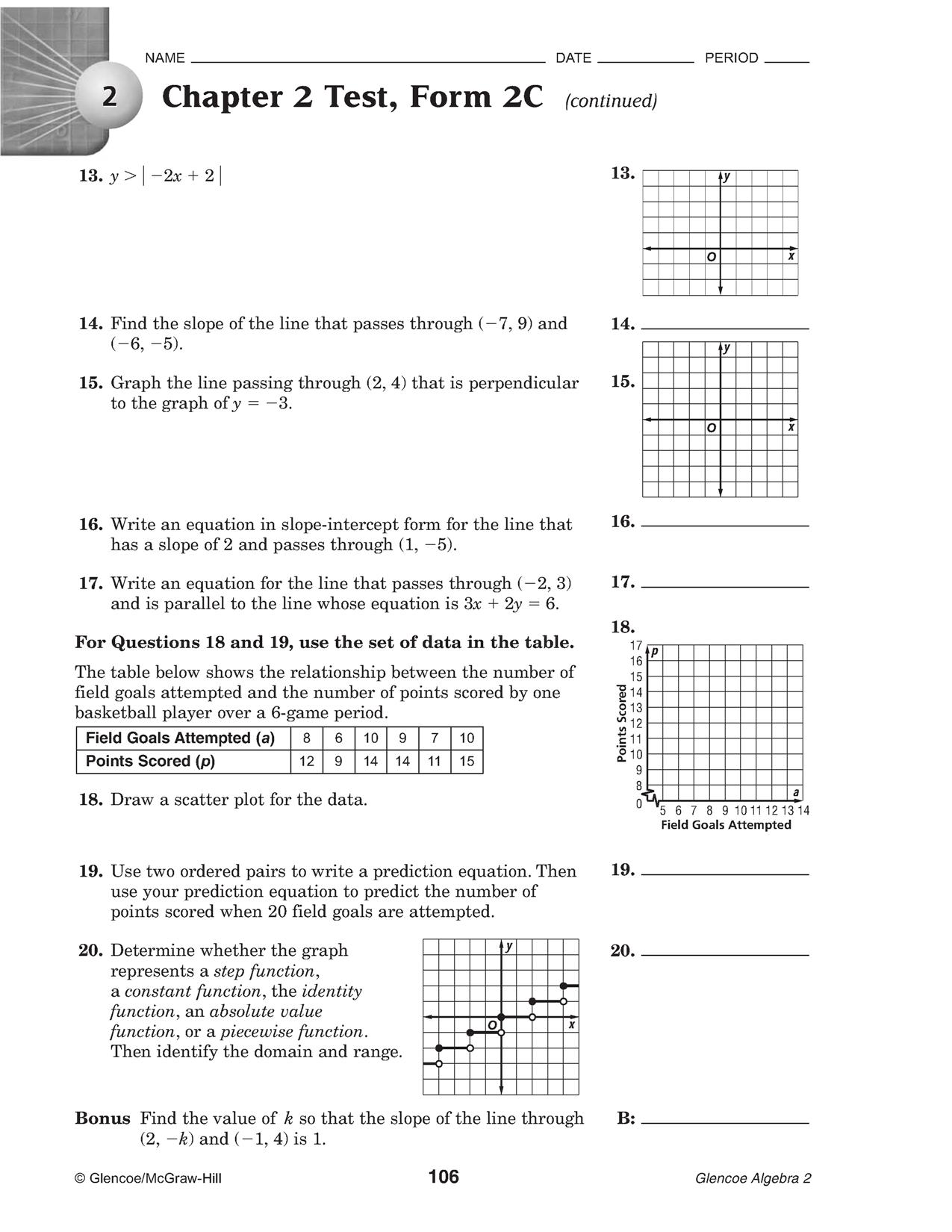


7. y = 2x – 3

8. Write an equation in the slope-intercept form for the line that has a slope of -

and passes through ( - 6, 1). 8.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. Find the x- intercept and the y-intercept of the graph of 3y = 2x – 6. Graph the line.



10. Write the equation x – 9 = 8y in standard form. Identify A B and C. 10. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A = \_\_\_\_\_

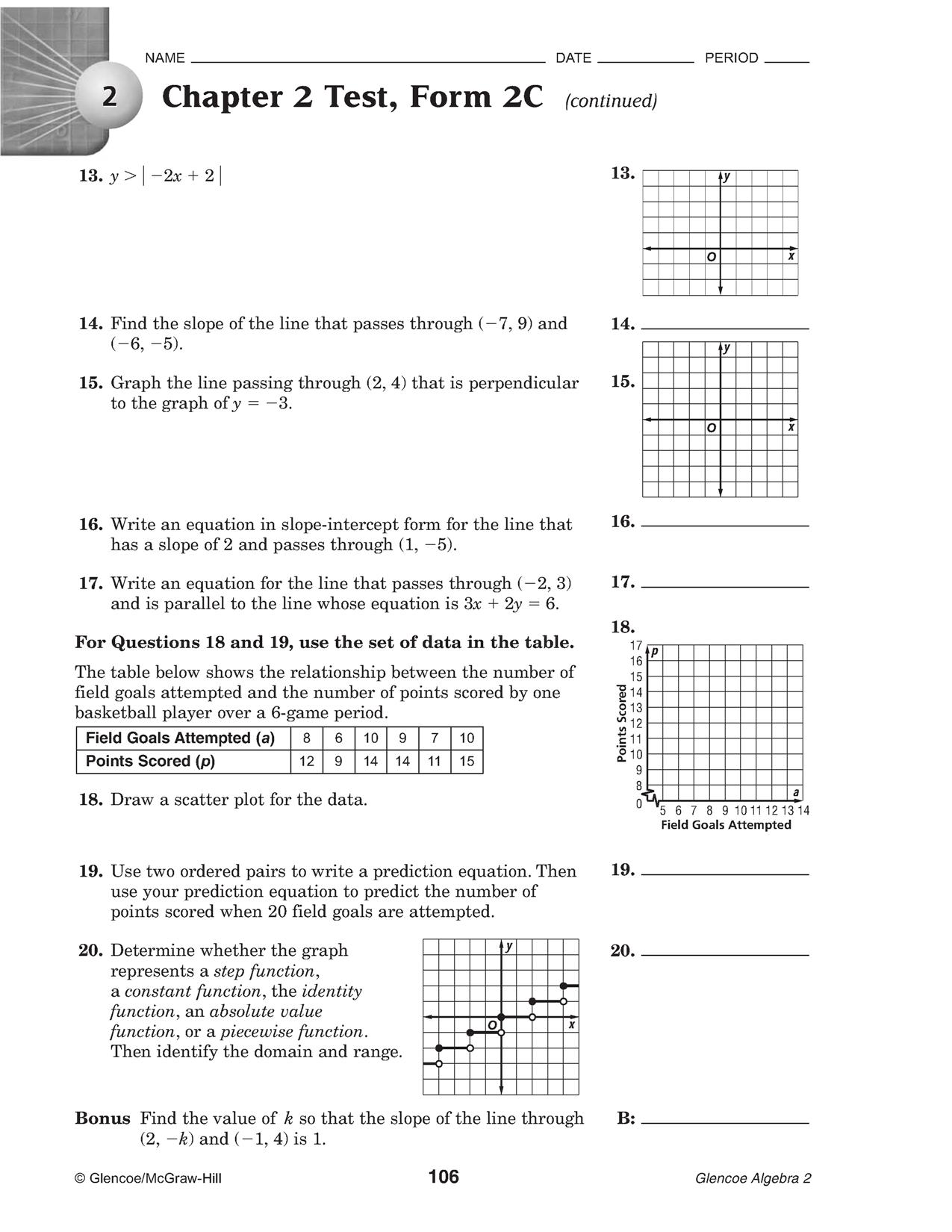
B = \_\_\_\_\_

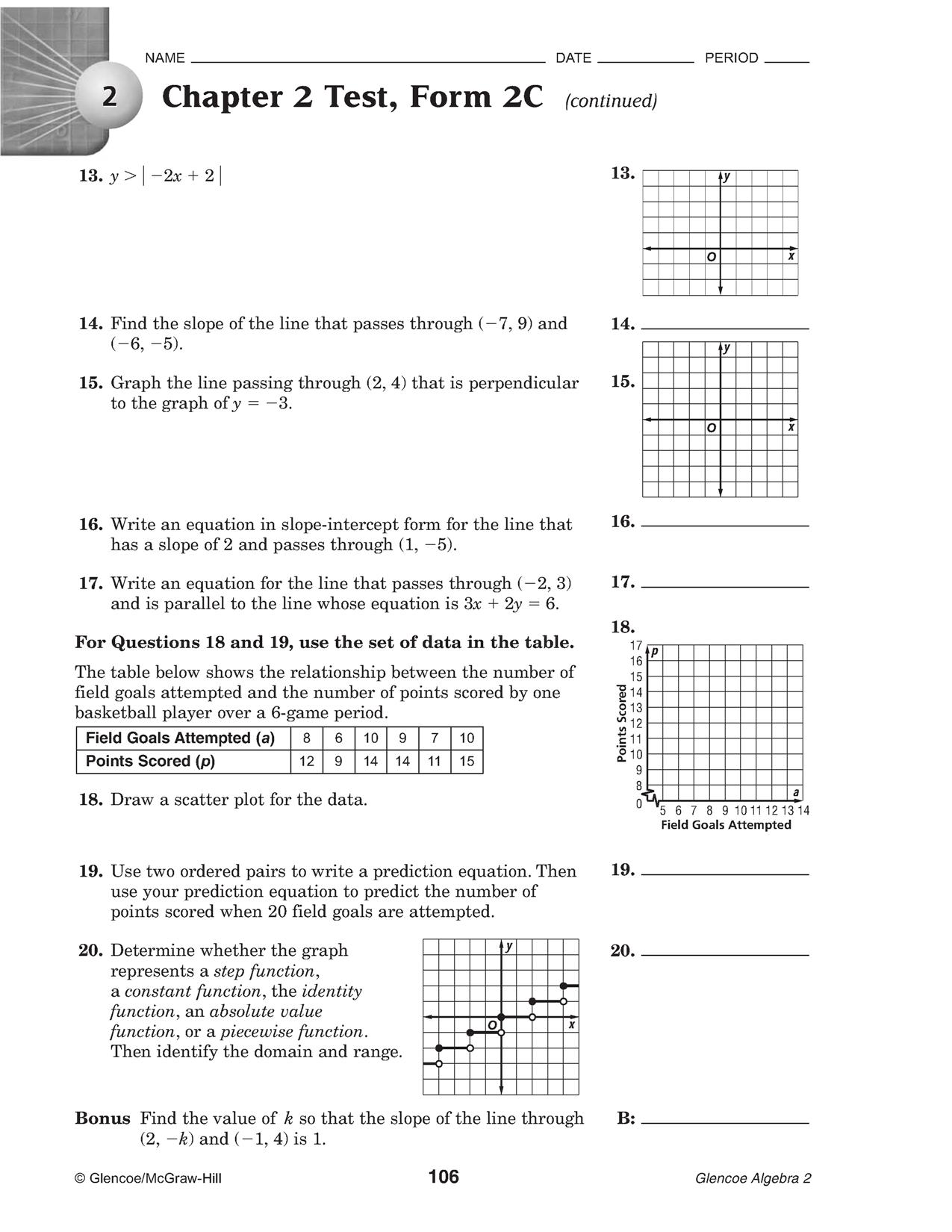
C = \_\_\_\_\_

11. Write an equation in slope-intercept form for the line that has a slope 11. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Of 2 and passes through ( 1 , -5)

12. Use the data to draw a scatterplot. Draw a line of best fit and estimate the number of points

scored when 20 field goals are attempted.  12. Estimate ­­­­\_\_\_\_\_\_\_\_\_\_\_\_



13. Evaluate f (2) when f ( x) = 13. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

14. Graph the equation y > x + 1 14. 